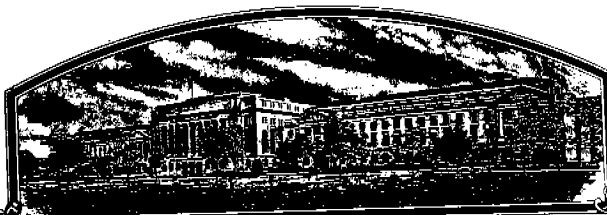


No.

76TQ015



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Coker's Pedigreed Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A SEED OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Coker 747'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 20th day of September in the year of our Lord one thousand nine hundred and seventy-eight

Attest

*Sumner H. Lee*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*B. B. Berglund*  
Secretary of Agriculture

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION Coker 747 (Coker 74-27)	2. KIND NAME Wheat	FOR OFFICIAL USE ONLY	
3. GENUS AND SPECIES NAME Triticum Aestivum	4. FAMILY NAME (Botanical) Gramineae	PV NUMBER 76TQ015	FILING DATE 9/3/76
5. DATE OF DETERMINATION October, 1975	6. NAME OF APPLICANT(S) Coker's Pedigreed Seed Co.	TIME 10:00 A.M.	BALANCE DUE \$
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P.O. Box 340 Hartsville, S.C. 29550	FEE RECEIVED \$ 250.00 \$ 250.00 \$ 250.00	8. TELEPHONE AREA CODE AND NUMBER 803-332-8151
10. STATE OF INCORPORATION South Carolina	11. DATE OF INCORPORATION July 12, 1918		

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Howard F. Harrison or S.P. Coker  
Coker's Pedigreed Seed Company  
P.O. Box 340  
Hartsville, S.C. 29550

## 13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Botanical Description of the Variety
- ☒ 13C. Exhibit C, Objective Description of the Variety
- ☒ 13D. Exhibit D, Data Indicative of Novelty
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B. and 14C. below.) ☒ YES ☐ NO14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☒ YES ☐ NO14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

August 30, 1976  
(DATE)August 30, 1976  
(DATE)Robert A. Coker  
(SIGNATURE OF APPLICANT)Howard F. Harrison  
(SIGNATURE OF APPLICANT)

# INSTRUCTIONS

**GENERAL:** Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

## ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder the employer of the breeder, the owner through purchase or inheritance, etc.

mp WA 01 94/20

Temp. Secy. Admin. Serv.

## Coker 747 Wheat

### EXHIBIT A

#### Origin and Breeding History of the Variety

Coker 747 originated in South Carolina from a hand-pollinated cross of Arthur x Coker 68-15. The breeding history is as follows:

- 1968 Hand-pollinated cross Arthur x Coker 68-15.
- 1968 F1 plants grown in growth chamber.
- 1969 F2 Bulk spaced plants selected for disease resistance and plant type.
- 1970 F3 Bulk from surviving plants. Repeat selection procedure above.
- 1971 F4 Headrows from surviving plants.
- 1972 F5 Head selections from selected headrows above.
- 1973 Single F5 headrows to preliminary yield trials.
- 1974  $\frac{1}{2}$  acre increases from single lines. Advanced yield trials.
- 1975 Production of foundation seed. Regional yield trials. See data from Uniform Southern Soft Wheat Nursery.
- 1976 Release of registered seed.

Genetic stability was achieved in the F5 generation. Stability was proven by observing 50 or more progeny rows each year of increase, where no obvious variants were noted. Performance data from reports of 1975 and 1976 UNIFORM SOUTHERN SOFT WHEAT NURSERY are included. Milling and baking data from the Soft Wheat Quality Laboratory are also enclosed.

Coker 747

EXHIBIT B

Botanical Description of the Variety

Coker 747 is a semi-dwarf soft red winter wheat variety with a decumbent growth habit under winter conditions. Coleoptile color is white. Stems are short with average height 7 cm less than Arthur. Auricles are lacking anthocyanin. Spikes are mid-dense, white, awnleted, the longest awns being about 3.5 cm. Kernels are red, soft in texture, oval shaped with shallow crease. Cheeks are rounded. Brush is medium length, lacking a collar. Anther color is yellow.

Coker 747 is resistant in the adult stage to the leaf rust races prevalent in South Carolina. It is moderately resistant to powdery mildew and stem rust. It is also resistant to soil-borne mosaic as it occurs in Hartsville, South Carolina.

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Coker's Pedigreed Seed Company

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P.O. Box 340

Hartsville, S.C. 29550

FOR OFFICIAL USE ONLY

PVPO NUMBER

7605015

VARIETY NAME OR TEMPORARY DESIGNATION

Coker 747

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., 0 8 9 or 0 9 ) when number is either 99 or less or 9 or less.

1. KIND:

1 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

2 1 = SPRING 2 = WINTER 3 = OTHER (Specify) 1 1 = SOFT 2 = HARD 3 = OTHER (Specify)

2 1 = WHITE 2 = RED 3 = OTHER (Specify)

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

FIRST FLOWERING LAST FLOWERING

4. MATURITY (50% Flowering):

0 0 NO. OF DAYS EARLIER THAN 1 1 = ARTHUR 2 = SCOUT 3 = CHRIS  
NO. OF DAYS LATER THAN 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (From soil level to top of head):

0 8 5 CM. HIGH  
CM. TALLER THAN 1 1 = ARTHUR 2 = SCOUT 3 = CHRIS  
0 7 CM. SHORTER THAN 1 4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (See reverse):

2 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN 1 1 = YELLOW 2 = PURPLE

8. STEM:

1 Anthocyanin: 1 = ABSENT 2 = PRESENT 2 Waxy bloom: 1 = ABSENT 2 = PRESENT  
Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT 1 Internodes: 1 = HOLLOW 2 = SOLID  
NO. OF NODES (Originating from node above ground) CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

1 Anthocyanin: 1 = ABSENT 2 = PRESENT 2 Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER (Specify) Flag leaf: 1 = NOT TWISTED 2 = TWISTED  
Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT  
MM. LEAF WIDTH (First leaf below flag leaf) CM. LEAF LENGTH (First leaf below flag leaf):

x letter of Oct. 6, '77

## 1. HEAD:

☒ 2 Density: 1 = LAX 2 = DENSE ☒ 2 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE  
4 = OTHER (Specify) \_\_\_\_\_  
☒ 3 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED  
☒ 1 Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED  
5 = BROWN 6 = BLACK 7 = OTHER (Specify): \_\_\_\_\_  
☐ 0 ☐ 9 CM. LENGTH ☐ ☐ MM. WIDTH

## 12. GLUMES AT MATURITY:

☒ 2 Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.) ☒ 1 Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.)  
3 = WIDE (CA. 4 mm.)  
☒ 1 Shoulder: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE ☒ 2 Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

## 13. COLEOPTILE COLOR:

☒ 1 1 = WHITE 2 = RED 3 = PURPLE

## 14. SEEDLING ANTHOCYANIN:

☒ 1 1 = ABSENT 2 = PRESENT

## 5. JUVENILE PLANT GROWTH HABIT:

☒ 1 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

## 16. SEED:

☒ 2 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL ☒ 1 Cheek: 1 = ROUNDED 2 = ANGULAR  
☒ 2 Brush: 1 = SHORT 2 = MEDIUM 3 = LONG ☒ 1 Brush: 1 = NOT COLLARED 2 = COLLARED  
☐ Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK  
☒ 3 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) \_\_\_\_\_  
☐ 0 ☐ 7 MM. LENGTH ☐ 0 ☐ 3 MM. WIDTH ☐ ☐ GM. PER 100 SEEDS

## 17. SEED CREASE:

☒ 1 Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'  
☒ 1 Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'

## 18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☒ STEM RUST (Races) ☒ LEAF RUST (Races) ☐ 0 STRIPE RUST (Races) ☐ 0 LOOSE SMUT  
☒ POWDERY MILDEW ☐ 0 BUNT ☒ 2 OTHER (Specify) Soil-borne Mosaic

## 19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☐ 0 SAWFLY ☐ 0 APHID (Bydv.) ☐ GREEN BUG ☐ CEREAL LEAF BEETLE  
☐ OTHER (Specify) \_\_\_\_\_ HESSIAN FLY RACES: ☐ GP ☐ A ☐ B ☐ C  
☐ D ☐ E ☐ F ☐ G

## 20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering		Seed size	
Leaf size		Seed shape	
Leaf color		Coleoptile elongation	
Leaf carriage		Seedling pigmentation	

## INSTRUCTIONS.

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (a) L.W. Briggles and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1961, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

Section of Oct. 6, '77

APR 5 1977

Coker 747

EXHIBIT D

Data Indicative of Novelty

Novelty is based on the unique combination of the following characters.

Coker 747 most closely resembles "Arthur<sup>76\*</sup>7" except it is (1) 7 cm shorter than Arthur 7/ (2) has longer awnlets on the apical spikelets.



Table A

A Comparison of Length of Apical Awns  
of Coker 747 and Arthur 71 Wheat

<u>mm Awn Length</u>			
<u>Coker 747</u>		<u>Arthur 71</u>	
18	27	15	14
19	34	14	12
26	28	11	18
25	20	15	18
22	32	11	14
31	15	14	15
22	14	14	18
28	44	12	13
23	20	19	18
22	25	18	21
23	19	13	11
20	23	23	19
40	20	10	24
30	31	12	16
25	32	24	18
32	35	17	15
31	30	22	9
26	31	18	14
37	24	10	23
30	21	12	20
35	19	9	12
23	20	11	22
31	17	16	13
26	26	11	19
25	25	11	14

Average - 26 mm

Average - 15 mm

Coker 747

EXHIBIT E

Statement of Applicant's Ownership

Coker's Pedigreed Seed Co., Hartsville, S.C., believes it is the sole, original and first breeder of the Coker 747 variety of wheat for which it solicits a certificate of protection.

Table 16. Varietal rankings for combined quality. Uniform Eastern Soft White Winter Wheat Nursery Series, 1975 crop, and combined quality rankings, 1974, 1973, 1972, and 1971 crops.

Lab. No.	Entry	Quality Ranking		Rank Sum	Combined Quality Rank				
		Milling	Baking		1975	1974	1973	1972	1971
75333	NY 5517-24	1	5	6	1-				
335	NY 5954-5-36	5	1	6	1-				
345	B2046	9	2-	11-	3				
337	NY 5954-6-28	2	10	12	4				
336	NY 5954-6-26	10-	2-	11	5				
334	NY 5954-5-30	7	7-	14-	6				
344	B2036	10-	6	16-	7				
326	Yorkstar	8	9	17	8	2	2	9-	3
338	NY 5954-6-30	3-	14	17-	9				
340	B0223	12-	7-	20	10-				
347	B0035	3-	16-	20	19-				
343	B2219	12-	11	23-	12				
342	B2201	20	4	24	13				
346	B0237	6	19	25	14				
332	NY 0633-8	15	12	27	15				
328	Fredrick	17	13	30	16	3-	1	4-	
341	A9051	16	15	31	17				
331	NY W3501	19	16-	35-	18	1			17-
327	Arrow	14	24	38	19	8-	6	22-	
339	B0270	24	18	42	20	5			
324	Genesee	21	22	43	22	8-	7	9-	16
329	Tecumseh	18	25	43	22	7	5	17-	
330	Ticonderoga	23	20	43	22	6	10		
348	B1036	22	23	45	24				
325	Ionla	25	21	46	25	10			

Note: - = 1/2.

Table 12. Analytical, chlorine treatment, physicochemical, and cake baking data for 50% extraction Alpine-milled flours from Uniform Southern Soft Red Winter Wheat Nursery Series, 1975 crop

Lab. No.	Selection or Variety	Analytical		Chlorine Treatment		Physicochemical data						Treated Flour				Cake Data		
		Ash	Prot. %	Initial pH	Final pH	Response $\Delta pH/cent/g$	Cp	Viscosity		Micro AMRC	Z	Opt. Level	Z	ml	Opt. Level	Volume	Internal Score	
								*MacM	*MacM									
																		Brnk.
75349P	Z. Holley	.34	9.7	5.87	4.91	2.53	77	80	78	52.3	109	109	561	40				
350P	W-69-10RA2	.32	10.2	5.96	4.91	2.39	81	85	70	51.1	109	109	578	43				
351P	Coker 74-10	.34	10.4	6.00	4.91	2.14	79	82	65	54.7	101	101	583	42				
352P	Coker 74-13	.35	10.3	6.09	4.91	2.51	86	90	75	52.7	100	100	577	41				
353P	Coker 74-14	.36	9.4	5.98	4.92	2.52	79	82	90	51.3	106	106	572	43				
354P	Coker 74-27*	.34	9.4	5.99	4.96	2.45	74	77	82	55.7	106	106	580	41				
355P	Coker 73-18	.33	9.9	6.04	4.96	2.77	102	108	101	55.3	106	106	579	42				
356P	Holley	.32	9.8	5.86	4.82	2.89	77	80	73	53.2	109	109	571	38				
357P	Pink W504	.37	9.7	5.90	4.95	2.44	71	74	75	53.0	109	109	572	39				
358P	FLX63-104-423	.33	10.5	6.13	4.89	2.07	132	141	113	51.3	109	109	570	43				
359P	McNair 1813	.33	9.9	5.92	4.96	1.75	86	90	82	56.5	100	100	585	38				
360P	McNair 3001	.34	8.7	5.96	4.63	3.09	62	64	84	60.4	97	97	608	41				
361P	McNair 3002	.34	8.8	5.95	4.91	2.97	75	78	101	55.0	163	163	598	43				
362P	McNair 3003	.32	8.9	5.96	4.91	3.09	83	87	108	57.2	100	100	599	40				
363P	Va 72-54-14	.32	9.2	5.97	4.96	2.24	63	65	69	52.0	100	100	599	41				
364P	Va 68-22-7	.32	9.7	5.92	4.86	3.03	64	66	60	56.8	100	100	605	44				
365P	Va 68-24-42	.37	9.1	5.97	4.94	2.40	65	67	81	54.5	106	106	593	41				
366P	Va 70-52-22	.37	9.0	5.96	4.75	2.05	57	58	71	54.5	106	106	574	42				
367P	Arthur 6	.32	9.6	5.92	4.92	2.63	83	87	81	51.2	106	106	580	43				
368P	Arthur 71	.33	9.7	5.97	4.85	2.38	84	88	85	56.4	106	106	570	40				
369P	Oasis	.34	10.0	5.98	4.96	2.43	79	82	73	54.9	109	109	564	38				

State of New York  
County of New York

TRANSFER OF OWNERSHIP

In consideration of the formation of a research partnership, which is named CR Seeds with its principal offices at 900 Darlington Highway, Hartsville, S.C. 29550, and of which Coker's Pedigreed Seed Company, Hartsville, S.C., is a partner, Coker's Pedigreed Seed Company does hereby convey to CR Seeds, free from all encumbrances, ownership of the following protected varieties:

Wheat Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 68-15	7200014	March 6, 1974
Coker 68-19	7200015	March 6, 1974
Coker 747	76TQ015	September 9, 1978
Coker 762	80Q0152	December 12, 1981
Coker 797	8000145	December 12, 1981

Oat Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 227	7500007	October 20, 1977
Coker 716	7900003	December 28, 1978
Coker 234	7500008	October 26, 1977
Four Twenty-Two	7700085	April 12, 1979
Big Mac	8200121	August 19, 1982
Mesquite	8200122	August 19, 1982

Soybean Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker-Hampton 266A	7100022	September 6, 1973
Coker 136	7300091	October 18, 1973
Coker 338	7400058	October 29, 1976
Coker 237	7800034	July 13, 1978
Coker 488	7900035	July 13, 1978
Coker 156	7900043	November 27, 1979
Coker 317	8100095	November 19, 1981
Coker 368	8200140	August 31, 1983

COKER'S PEDIGREED SEED CO.

By: E. Joe Dahmer  
E. Joe Dahmer, President

Date: February 29, 1984

Sworn and subscribed to before me  
this 29<sup>th</sup> day of February, 1984.

Ruth Silber  
Notary Public ~~for South Carolina~~

RUTH SILBER  
NOTARY PUBLIC, State of New York  
No. 31-8994050  
Qualified in New York County  
Commission Expires March 30, 1984

State of New York  
County of New York ss:

TRANSFER OF APPLICATIONS FOR

PLANT VARIETY PROTECTION

In consideration of the formation of a research partnership, which is named CR Seeds with its principal offices at 900 Darlington Highway, Hartsville, S.C. 29550, and of which Coker's Pedigreed Seed Company is a partner, Coker's Pedigreed Seed Company does hereby convey to CR Seeds, free from all encumbrances, ownership of the following applications for Plant Variety Protection:

Wheat Varieties

<u>Variety Name</u>	<u>Application No.</u>	<u>Date of Filing</u>
Coker 916	830036	January 11, 1983
Coker 983	Application Mailed to PVP Office on	February 17, 1984

Oat Varieties

<u>Variety Name</u>	<u>Application No.</u>	<u>Date of Filing</u>
Coker 820	Application Mailed to PVP Office on	February 24, 1984

Soybean Varieties

<u>Variety Name</u>	<u>Application No.</u>	<u>Date of Filing</u>
Coker 393	8400018	November 18, 1983
Coker 355	8400019	November 18, 1983

COKER'S PEDIGREED SEED CO.

By: E. Joe Dahmer  
E. Joe Dahmer, President

Date: Feb. 29, 1984

Sworn and subscribed to before me  
this 29th day of February, 1984.

Ruth Silber  
Notary Public ~~for South Carolina~~

(My commission expires March 20, 1990.)

RUTH SILBER  
NOTARY PUBLIC, State of N.Y.  
No. 31-8994050  
Qualified in New York County  
Commission Expires March 30, 1984

ASSIGNMENT

WHEREAS, CR Seeds, a general partnership having its principal office at 900 Darlington Highway, Hartsville, South Carolina 29550 ("Partnership"), is the owner of the entire right, title and interest to the United States Plant Variety Protection Certificates and applications for such Certificates (collectively "Certificates") listed on Appendix A attached hereto;

WHEREAS, the partners of CR Seeds, Rohm and Haas Seeds Inc., a Delaware corporation having its principal office at Independence Mall West, Philadelphia, PA 19105 ("RHS") and Coker's Pedigreed Seed Company, a South Carolina corporation with its principal office at 900 Darlington Highway, Hartsville, SC 29550 ("CPS"), are each desirous of acquiring a one-half undivided interest in the varieties and Certificates listed on Appendix A;

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, CR Seeds does hereby sell, assign and transfer to RHS a one-half undivided interest in and to the varieties and Certificates and to CPS a one-half undivided interest in and to the varieties and Certificates for each of their use and benefit and for each of their successors and assigns.

IN TESTIMONY THEREOF, CR Seeds intending to be legally bound has caused this assignment to be executed by its duly authorized officer.

CR Seeds

By: E. Joe Dahmer  
President

State of South Carolina )  
County of Darlington ) SS

On this 30th day of December, 1986, before me appeared E. Joe Dahmer of CR Seeds, the person who signed this instrument who acknowledged that he signed it as a free act on behalf of CR Seeds with authority to do so.

Robert B. Elliott  
Notary Public

My commission expires 4-14-91

APPENDIX A

Soft Red Winter Wheat Varieties

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 68-15	7200014	Mar. 6, 1974
Coker 68-19	7200015	Mar. 6, 1974
Coker 747	76TQ015	Sept. 9, 1978
Coker 762	8000152	Dec. 12, 1981
Coker 797	8000145	Dec. 12, 1981
Coker 916	8300036	Sept. 27, 1985
Coker 983	8400058 <sup>1</sup>	Feb. 27, 1984 <sup>1</sup>
McNair 701	7200038	Feb. 26, 1974
McNair 4823	7200037	April 8, 1975
RHS 8232	8400136 <sup>1</sup>	July 16, 1984 <sup>1</sup>
9227	8600009 <sup>1</sup>	Oct. 22, 1985 <sup>1</sup>
9323	8600010 <sup>1</sup>	Oct. 22, 1985 <sup>1</sup>

---

1. Application number and filing date.



Table 19. Varietal rankings for wheat properties and millability, and milling quality rankings, Uniform Southern Soft Red Winter wheat Nursery Series, 1973 crop, and milling quality rankings, 1974, 1973, 1972, and 1971 crops.

Lab. No.	Entry	Test Yr.	Wheat Prot.	Pearl. Index	Ranking				Break Flour Yield	Flour Yield	Flour Ash	Rank Sum	Milling Quality Rank				
					Part. Size Index	Reduc. Factor	Yield	Yield					1975	1974	1973	1972	1971
75354	Coker 74-27	2	9-	14	6	3	6	4	9-	54	1						
361	McNair 3002	18	1	8	3	6-	7	2	14-	60	2						
362	McNair 3003	15	6	2	2	20	3	12	2-	62-	3						
355	Coker 73-18	3-	9-	15	17	1	13	3	2-	64-	4			14			
357	Funk W504	7	12	12	5	2	5	5-	20-	69	5						
365	Va 68-24-42	16	4	6	11	10	8-	1	18	74-	6			1			
366	Va 68-22-7	14	13	1	4	18	2	14-	9-	76	7						
368	Arthur 71	5-	15	3	8	8-	17	18	5-	80-	8			12			
363	Va 72-54-14	17	4	9	14	11	12	7-	9-	84	9						
367	Arthur 6	3-	17	4	15	15	20	9-	2-	86-	10						
360	McNair 3001	21	2	11	1	21	1	19	14-	90-	11-						
366	Va 70-52-22	19	4	10	7	16-	4	9-	20-	90-	11-			4			
350	H69-10BA2	9	17	20	10	5	15	5-	2-	92	13				12		
359	McNair 1813	12	14	13	9-	6-	8-	20	9-	93	14				9		8
369	Omaha	5-	17	5	12	4	19	16	14-	93-	15			6-			
369	E. Holler	11	7	17	9-	19	11	14	9-	98-	16						
356	Hollery	13	9-	19	16	14	10	12	5-	99	17				10		
351	Coker 74-10	9	21	7	13	13	18	7-	14-	101	18					13	
353	Coker 74-14	20	9-	16	19	12	14	12	18	120-	19						9
352	Coker 74-13	9	19	18	20	8-	16	16-	18	125	20						
358	FLK63-104-423	1	20	21	21	16-	21	21	9-	131	21						

Note: - = 1/2.

Coker 74-27 = Coker 747, better of Oct 6, 1977

Winter Oat Varieties

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 227	7500007	Oct. 20, 1977
Coker 716	7900003	Dec. 28, 1978
Coker 820	8400059 <sup>1</sup>	Feb. 28, 1984 <sup>1</sup>
Coker 234	7500008	Oct. 26, 1977
Four Twenty Two	7700085	Apr. 12, 1979
Big Mac	8200121	Aug. 19, 1982
Mesquite	8200122	Aug. 19, 1982

---

1. Application number and filing date.

Soybean Varieties

Coker Hampton 266A	7100022	Sept. 6, 1973
Coker 136	7300091	Oct. 18, 1973
Coker 338	7400058	Oct. 29, 1976
Coker 237	7800034	July 13, 1978
Coker 488	7800035	July 13, 1978
Coker 156	7900043	Nov. 27, 1979
Coker 317	8100095	Nov. 19, 1981
Coker 368	8200140	Aug. 31, 1983
Coker 425	8400077	May 31, 1985
Coker 485	8400078	May 31, 1985
Coker 393 (Q327-4270)	8400018	Jan. 25, 1985
Coker 355 (XP5878)	8400019	Jan. 25, 1985
Coker 627	8700001 <sup>1</sup>	Oct. 3, 1986 <sup>1</sup>
Coker 686	Pending <sup>1</sup>	Dec. 19, 1986

---

1. Application number and filing date.

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
AP55	8100089	Feb. 18, 1982
AP70	7800081	Feb. 15, 1979
AP71	8100090	Sept. 24, 1981
Lancer	7600044	Sept. 29, 1976
RA-526	7500067	Dec. 12, 1975
RA-604	7900008	Mar. 1, 1975
RA-680	8100097	Apr. 15, 1982
RA-502	8200160	Aug. 31, 1983
RA-606	8200161	Oct. 27, 1983
RA-580	8300075	Apr. 30, 1984
Mitchell	7300054	Oct. 30, 1974
RA-401	7800030	June 22, 1978
RA-601	7800031	June 22, 1978
Mitchell 450	7900046	June 14, 1979
RA-481	8000054	Mar. 26, 1981
RA-402	8000093	July 31, 1981
Mitchell 410	8200162	Oct. 27, 1983
RA-403	8200163	Oct. 27, 1983

<u>Variety Name</u>	<u>Certificate No.</u>	<u>Issue Date</u>
RA-451	8500008 <sup>1</sup>	Oct. 10, 1984 <sup>1</sup>
RA-452	8500009 <sup>1</sup>	Oct. 10, 1984 <sup>1</sup>
RA-405	8500010 <sup>1</sup>	Oct. 10, 1984 <sup>1</sup>
RA-501 A	76TQ006	May 11, 1978
RA-480	7900007	Feb. 15, 1979

---

1. Application number and filing date.

ASSIGNMENT

WHEREAS, Rohm and Haas Seeds Inc., a Delaware corporation having its principal office at Independence Mall West, Philadelphia, PA 19105 ("RHS"), is the owner of a one-half undivided interest in and to the United States Plant Variety Protection Certificates and applications for such Certificates (collectively "Certificates") listed on Appendix A attached hereto:

WHEREAS, Coker's Pedigreed Seed Company, a South Carolina corporation with its principal office at 900 Darlington Highway, Hartsville, SC 29550 ("CPS"), is desirous of acquiring this one-half undivided interest in the aforementioned varieties and Certificates;

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, RHS does hereby sell, assign and transfer to CPS RHS's one-half undivided interest in and to the varieties and Certificates for CPS's use and benefit and for its successors and assigns.

IN TESTIMONY THEREOF, RHS intending to be legally bound has caused this assignment to be executed by its duly authorized officer.

ROHM AND HAAS SEEDS INC.

By: Howard A. Mergelkamp  
Assistant Treasurer

State of Pennsylvania )  
County of Philadelphia ) SS

On this 31<sup>st</sup> day of December, 1986, before me appeared Howard A. Mergelkamp of Rohm and Haas Seeds Inc., the person who signed this instrument who acknowledged that he signed it as a free act on behalf of Rohm and Haas Seeds Inc. with authority to do so.

Elizabeth A. Smith

ELIZABETH A. SMITH, Notary Public

Notary Public, Phila., Phila. Co

My commission expires My Commission Expires Oct. 14, 1989.

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, COKER'S PEDIGREED SEED COMPANY, a South Carolina corporation ("Coker's"), having its offices at 900 Darlington Highway, Hartsville, South Carolina 29550, has adopted and used and is the sole and exclusive owner of certain United States Plant Variety Protection Certificates and similar rights under laws of countries other than the United States as listed in Exhibit A hereto:

WHEREAS, COKER'S PEDIGREED SEED CO. and NORTHRUP KING CO., a Delaware corporation ("NK"), have entered into an Asset Purchase Agreement, dated July 20, 1988, providing for the purchase and sale of substantially all of the assets and business of Coker's and the assumption of certain of Coker's liabilities and obligations by NK; and

WHEREAS, NK desires to acquire the right, title and interest in, to and under the Plant Variety Protection Certificates listed on Exhibit A hereto and the pending applications hereto (collectively, the "Plant Variety Protection Certificates").





Cotton Varieties, Continued

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate Number</u>	<u>Issue Date</u>	<u>Term (Yrs.)</u>
Coker 3131	8100019	Sept. 24, 1981	18
Coker 208	8300082	Sept. 29, 1983	18
Coker 139	8700070	Dec. 18, 1987	18

Soft Red Winter Wheat Varieties

Coker 68-15	7200014	Mar. 6, 1974	17
Coker 68-19	7200015	Mar. 6, 1975	17
Coker 747	76TQ015	Sept. 20, 1978	17
Coker 762	8000152	Dec. 10, 1981	18
Coker 797	8000145	Dec. 10, 1981	18
Coker 916	8300036	Sept. 27, 1985	18
Coker 983	8400058	Dec. 31, 1980	18
McNair 701	7200038	Feb. 26, 1974	17
McNair 4823	7200037	Apr. 8, 1975	17
RHS 8232	8400136	Oct. 31, 1985	18
9227	8600009	May 31, 1988	18
9323	8600010	Apr. 29, 1988	18
McNair 1813	7500006	May 1, 1975	17
McNair 1003	7700084	Aug. 10, 1978	17
Coker 833	8800005(1)	Oct. 2, 1987(1)	-
Coker 9733	8700159(1)	July 16, 1987(1)	-
Coker 9766	8700160(1)	July 17, 1987(1)	-

(1) Application number and filing date.



United States  
Department of  
Agriculture

Agricultural  
Research  
Service

Northern Plains Area  
National Seed  
Storage Laboratory

1111 South Mason Street  
Fort Collins, CO 80521-4500  
Telephone: 970 495-3200  
Fax: 970 221-1427

February 14, 1997

Marian R. Minnifield, Secretary  
Plant Variety Protection Office  
NAL Building, Room 500  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351

Subject: Expired PVPO's; disposition of

1. The following expired PVPO's have been transferred to the NPGS. Our records have been changed accordingly.

<u>Serial Number</u>		<u>PVP Number</u>
101862	01	PVP 7800029
102219	01	PVP 7800010
102675	01	PVP 7800088
102676	01	PVP 7400011
103506	01	PVP 7800084
103507	01	PVP 7900016
103508	01	PVP 7800082
103840	01	PVP 7900017
103842	01	PVP 7900067
104549	01	PVP 7700106
104551	01	PVP 7100046
314988	01	PVP 9500276
101863	01	PVP 7800026
102222	01	PVP 7800078
102226	01	PVP 7800091
101854	01	PVP 7200134
102214	01	PVP 7605014 ✓
102216	01	PVP 7900011
102217	01	PVP 7800095
102218	01	PVP 7800093
102220	01	PVP 7800097
102221	01	PVP 7800042

97 FEB 25 1997

USDA



United States  
Department of  
Agriculture

Agricultural  
Research  
Service

Northern Plains Area  
National Seed  
Storage Laboratory

1111 South Mason Street  
Fort Collins, CO 80521-4500  
Telephone: 970 495-3200  
Fax: 970 221-1427

102673	01	PVP 7800059
103502	01	PVP 7800096
103503	01	PVP 7800074
103509	01	PVP 7900044
103510	01	PVP 7900047
103838	01	PVP 7500042
103843	01	PVP 7300101
101859	01	PVP 7200132
102227	01	PVP 7700085
103511	02	PVP 7800028
103839	01	PVP 7900049
103845	01	PVP 7900048
104548	02	PVP 7800057
104550	01	PVP 7800024

97 FEB 25 1997

USDA

Sincerely,

GENE KEYS  
Data Coordinator